88586

Access DB#_____

SEARCH REQUEST FORM

Scientific and Technical Information Center

BEST AVAILABLE COPY

Requester's Full Name: Mike Keller Examiner #: 69404 Date: 3/7/03
Art Unit: 1654 Phone Number 30 8-4230 Serial Number: 09/937,306
Mail Box and Bldg/Room Location: CM1 10A03 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Association of no-synthase inhibitors...

Inventors (please provide full names): Michel August Jeremiah Harnett, Pierre-Etienne Cabier de Lassauniere

Earliest Priority Filing Date: 2/4/99

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Please Search the two highlighted compounds together and if no hits then Search them separately and see if there is any common use of them separately.

thanks

RECEIVED MAR 10 2003 TECHNICAL INFORMATION CENTER (STIC)

Mary Jane Ruhl
Tech. Info. Specialist, STIC
TC-1600
CM-1, Room 6A-06
Phone: 605-1155

****

STAFF USE ONLY	Type of Search	Vendors and cost where applicable
Searcher:	NA Sequence (#)	STN
Searcher Phone #:	AA Sequence (#)	Dialog
Searcher Location:	Structure (#)	Questel/Orbit
Date Searcher Picked Up: 3/10/03	Bibliographic	Dr.Link
Date Completed: 3/11/03	Litigation	Lexis/Nexis
Searcher Prep & Review Time:	Fulltext	Sequence Systems
Clerical Prep Time:	Patent Family	WWW/Internet
Online Time: 120	Other	Other (specify)

PTO-1590 (8-01)

=> d ibib abs hitstr 1-3

L8 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:6386 HCAPLUS
DOCUMENT NUMBER: 136:69731
TITLE: Preparation of N-phenylthiophenecarboxamidines and analogs as NO synthase and lipid peroxidation inhibitors
INVENTOR(S): **Chabrier de Lassauniere, Pierre Etienne;** Auvin, Serge; Bigg, Dennis; **Auguet, Michel; Harnett, Jeremiah**
PATENT ASSIGNEE(S): Societe de Conseils de Recherches et d'Applications Scientifiques (S.C.R.A.S.), Fr.
SOURCE: U.S., 63 pp., Cont.-in-part of U. S. Ser. No. 381,749.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6335445	B1	20020101	US 1999-456205	19991207
FR 2761066	A1	19980925	FR 1997-3528	19970324
FR 2761066	B1	20001124		
FR 2764889	A1	19981224	FR 1997-7701	19970620
FR 2764889	B1	20000901		
WO 9842696	A1	19981001	WO 1998-FR288	19980216

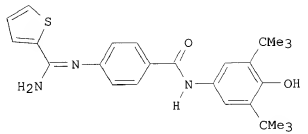
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

US 6340700	B1	20020122	US 1999-381749	19990922
US 2002007062	A1	20020117	US 2001-882264	20010615
US 2002045753	A1	20020418	US 2001-945782	20010904
US 2002042511	A1	20020411	US 2001-953682	20010917

PRIORITY APPLN. INFO.:

FR 1997-3528	A	19970324
FR 1997-7701	A	19970620
WO 1998-FR288	W	19980216
US 1999-381749	A2	19990922
WO 1998-FR1250	W	19980615
US 1999-456205	A3	19991207
US 2001-882264	A3	20010615

OTHER SOURCE(S): MARPAT 136:69731
GI



II

AB RZZ1Z2Z3N:C(NH2)R1 [I; R = H, (un)substituted C6H4OR3, indolyl, etc.; R1 = alkyl or (un)substituted (hetero)aryl; R3 = H, alkyl, etc.; Z = bond, CO, alkylene(carbonyl), CONH, etc.; Z1 = bond or heterocyclylene; Z2 = bond, alkylene(oxy), etc.; Z3 = (un)substituted phenylene] were prepd. Thus, 4-(O2N)C6H4NH2 was amidated by 3,5-di-tert-butyl-4-hydroxybenzoic acid and the reduced product amidated by S-methyl-2-thiophenethiocarboximide hydroiodide to give title compd. II. Data for biol. activity of I were given.

IT **125978-95-2**, NO synthase
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(mediated disorders; treatment; prepn. of N-phenylthiophenecarboxamidines and analogs as NO synthase and lipid peroxidn. inhibitors)

RN 125978-95-2 HCAPLUS
CN Synthase, nitric oxide (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2000:725626 HCAPLUS
DOCUMENT NUMBER: 133:281650
TITLE: Novel lipoic acid derivatives, their preparation, and pharmaceutical compositions containing them
INVENTOR(S): **Harnett, Jeremiah; Auguet, Michel; Chabrier, De Lassauniere Pierre-etienne**
PATENT ASSIGNEE(S): Societe De Conseil de Recherches et d'applications Scientifiques (S.C.R.A.S., Fr.; Chabrier De Lassauniere, Pierre-Etienne
SOURCE: PCT Int. Appl., 51 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000059899	A1	20001012	WO 2000-FR814	20000331

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,

DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

FR 2791677	A1	20001006	FR 1999-4132	19990402	
FR 2791677	B1	20010817			
FR 2805537	A1	20010831	FR 2000-2315	20000224	
EP 1169316	A1	20020109	EP 2000-918930	20000331	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO					
JP 2003505341	T2	20030212	JP 2000-609410	20000331	

PRIORITY APPLN. INFO.:

FR 1999-4132	A	19990402	
FR 2000-2315	A	20000224	
WO 2000-FR814	W	20000331	

OTHER SOURCE(S): MARPAT 133:281650

GI

I

II

AB The invention concerns novel lipoic acid derivs. I [A = (CH2)mNR3CO(CH2)n, (CH2)mCONR3(CH2)n, (CH2)mNR3(CH2)n, (CH2)mCONR3(CH2)pCONR4(CH2)n, (CH2)mNR3CONR4(CH2)n, (CH2)mNR3CONR4(CH2)m; R1, R2, R3, R4 = H, linear or branched C1-6-alkyl; X = X1, (CH2)q; Y = N:C(B)NH2, Y1; R5 = H, C1-6-alkyl, (CH2)mQ; T = (CH2)lY; Q = halogen, OH, CN, NH2, alkoxy, alkylthio, (di)alkylamino, 5- or 6-membered heterocycle contg. O, NR6, S; R6 = H, C1-6-alkyl; R7 = H, C1-6-alkyl; B = NR8R9, SR10; R8, R9 = H, linear or branched C1-6-alkyl, NO2; R10 = H, linear or branched C1-6-alkyl; i = 0 - 6; m, n = 0 - 6; p = 2 - 6; q = 0 - 6] and II (A, X, Y, R1, R2 as in I) , which have an inhibiting action with respect to NO-synthase enzymes producing nitrogen monoxide NO and/or are agents enabling the regeneration of antioxidants or entities trapping reactive oxygen species (ROS) and intervening in a more general manner in the redox status of thiol groups. Thus, I [3-AXY = (CH2)4CONHC6H4{NHC(2-thienyl):NH}-4] was prepd. from thioctic acid via amidation with N-Boc-1,4-phenylenediamine, followed by deprotection and condensation with S-methyl-2-thiophenethiocarboximide. I showed NO synthase inhibition (CI50 = 4.5 .mu.M) and oxidative stress protection (CE50 = 30.mu.M).

IT **125978-95-2**, NO synthase
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(prepn. of novel lipoic acid derivs. with NO synthase inhibition activity and pharmaceutical compns. contg. them)

RN 125978-95-2 HCAPLUS

CN Synthase, nitric oxide (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **10102-43-9**, Nitrogen monoxide, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(prepn. of novel lipoic acid derivs. with NO synthase inhibition activity and pharmaceutical compns. contg. them)

RN 10102-43-9 HCAPLUS

CN Nitrogen oxide (NO) (8CI, 9CI) (CA INDEX NAME)

N=O

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2000:725417 HCAPLUS
DOCUMENT NUMBER: 133:276363
TITLE: Association of NO-synthase inhibitors and metabolic antioxidants
INVENTOR(S): **Auguet, Michel; Harnett, Jeremiah; Chabrier De Lassauniere, Pierre-etienne**
PATENT ASSIGNEE(S): Societe de Conseils de Recherches et d'Applications Scientifiques (S.C.R.A.S, Fr.
SOURCE: PCT Int. Appl., 16 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000059448	A2	20001012	WO 2000-FR812	20000331
WO 2000059448	A3	20010308		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2791571	A1	20001006	FR 1999-4134	19990402
FR 2791571	B1	20021004		
EP 1169005	A2	20020109	EP 2000-915262	20000331
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
NO 2001004770	A	20011123	NO 2001-4770	20011001
PRIORITY APPLN. INFO.:			FR 1999-4134 A	19990402
			WO 2000-FR812 W	20000331

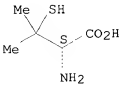
AB The invention relates to a pharmaceutical compn. comprising as an active ingredient one or several substances interfering with the synthesis of nitrogen monoxide by inhibiting NO-synthase and one or several metabolic antioxidants contg. thiol groups and intervening in the redox status of the thiol groups, and optionally a pharmaceutically acceptable support. The invention also relates to a product contg. one or several NO-synthase inhibitors and one or several metabolic antioxidants intervening in the redox status of the thiol groups, as a combined product in a sepd. form of said active ingredients. A mixt. of 3 mg/kg N-phenyl-2-thiophenecarboximidamine and 10 mg/kg lipoic acid increased the dopamine level in guinea pigs suffering from parkinson to 5.21 ng/mg nervous tissue which was higher than either compds.

IT **52-67-5D**, Penicillamine, dimeric derivs. **74-79-3**, L Arginine, biological studies **79-17-4**, Aminoguanidine **306-60-5**, Agmatine **616-91-1 1098-97-1**, Pyritinol **2149-70-4**, Nitroarginine **2214-67-7**

2942-42-9, 7 Nitroindazole **2986-20-1**, s-Ethylisothiourea
3483-12-3, Dithiothreitol **3737-39-1 5401-94-5**,
5 Nitroindazole **7597-18-4**, 6 Nitroindazole **17035-90-4**
22780-54-7, 2-Iminopiperidine **25371-96-4**,
1,2-(Trifluoromethylphenyl)imidazole **50903-99-6**
57828-26-9, Lipoic acid **57828-26-9D**, Lipoic acid,
derivs. **156719-41-4**, S-Methyl-L-thiocitrulline
158875-72-0, S-Ethyl-L-thiocitrulline **171082-82-9**
179555-23-8 194245-33-5 300357-99-7
300358-00-3
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(assocn. of NO-synthase inhibitors and metabolic antioxidants)

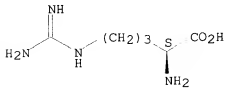
RN 52-67-5 HCAPLUS
CN D-Valine, 3-mercapto- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

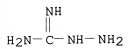


RN 74-79-3 HCAPLUS
CN L-Arginine (9CI) (CA INDEX NAME)

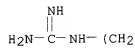
Absolute stereochemistry.



RN 79-17-4 HCAPLUS
CN Hydrazinecarboximidamide (9CI) (CA INDEX NAME)

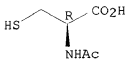


RN 306-60-5 HCAPLUS
CN Guanidine, (4-aminobutyl)- (8CI, 9CI) (CA INDEX NAME)

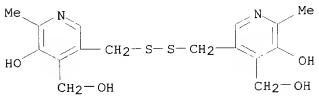


RN 616-91-1 HCAPLUS
CN L-Cysteine, N-acetyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

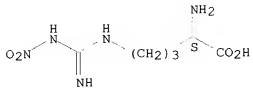


RN 1098-97-1 HCAPLUS
CN 4-Pyridinemethanol, 3,3'-[dithiobis(methylene)]bis[5-hydroxy-6-methyl- (9CI) (CA INDEX NAME)

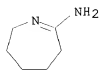


RN 2149-70-4 HCAPLUS
CN L-Ornithine, N5-[imino(nitroamino)methyl]- (9CI) (CA INDEX NAME)

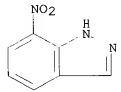
Absolute stereochemistry.



RN 2214-67-7 HCAPLUS
CN 2H-Azepin-7-amine, 3,4,5,6-tetrahydro- (9CI) (CA INDEX NAME)



RN 2942-42-9 HCAPLUS
CN 1H-Indazole, 7-nitro- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

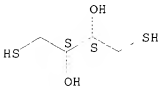


RN 2986-20-1 HCAPLUS

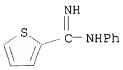
CN Carbamimidothioic acid, ethyl ester (9CI) (CA INDEX NAME)

RN 3483-12-3 HCAPLUS
CN 2,3-Butanediol, 1,4-dimercapto-, (2R,3R)-rel- (9CI) (CA INDEX NAME)

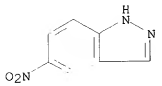
Relative stereochemistry.



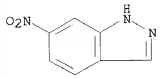
RN 3737-39-1 HCAPLUS
CN 2-Thiophenecarboximidamide, N-phenyl- (9CI) (CA INDEX NAME)



RN 5401-94-5 HCAPLUS
CN 1H-Indazole, 5-nitro- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

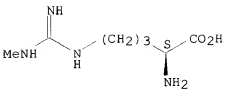


RN 7597-18-4 HCAPLUS
CN 1H-Indazole, 6-nitro- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



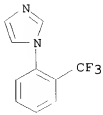
RN 17035-90-4 HCAPLUS
CN L-Ornithine, N5-[imino(methylamino)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



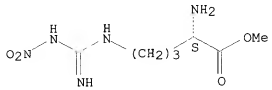
RN 22780-54-7 HCAPLUS
CN 2-Pyridinamine, 3,4,5,6-tetrahydro- (9CI) (CA INDEX NAME)

RN 25371-96-4 HCAPLUS
CN 1H-Imidazole, 1-[2-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)



RN 50903-99-6 HCAPLUS
CN L-Ornithine, N5-[imino(nitroamino)methyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

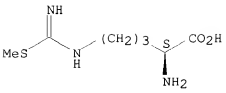


RN 57828-26-9 HCAPLUS
CN Lipoic acid (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 57828-26-9 HCAPLUS
CN Lipoic acid (9CI) (CA INDEX NAME)

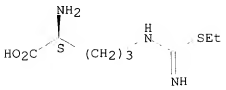
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 156719-41-4 HCAPLUS
CN L-Ornithine, N5-[imino(methylthio)methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

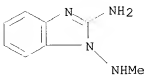


RN 158875-72-0 HCAPLUS
CN L-Ornithine, N5-[(ethylthio)iminomethyl]- (9CI) (CA INDEX NAME)

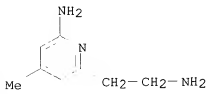
Absolute stereochemistry.



RN 171082-82-9 HCAPLUS
CN 1H-Benzimidazole-1,2-diamine, N1-methyl- (9CI) (CA INDEX NAME)



RN 179555-23-8 HCAPLUS
CN 2-Pyridineethanamine, 6-amino-4-methyl- (9CI) (CA INDEX NAME)



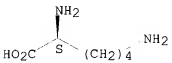
RN 194245-33-5 HCAPLUS
CN 2-Pyrimidinamine, 1,4-dihydro- (9CI) (CA INDEX NAME)

RN 300357-99-7 HCAPLUS
CN 2H-1,3-Thiazin-2-imine, 5,6-dihydro- (9CI) (CA INDEX NAME)

RN 300358-00-3 HCAPLUS
CN 2H-1,3-Oxazin-2-imine, 5,6-dihydro- (9CI) (CA INDEX NAME)

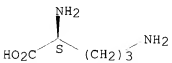
IT **56-87-1**, Lysine, biological studies **70-26-8**, Ornithine
10102-43-9, Nitrogen monoxide, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(assocn. of NO-synthase inhibitors and metabolic antioxidants)
RN 56-87-1 HCAPLUS
CN L-Lysine (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 70-26-8 HCAPLUS
CN L-Ornithine (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 10102-43-9 HCAPLUS
CN Nitrogen oxide (NO) (8CI, 9CI) (CA INDEX NAME)

IT **125978-95-2**, NO-synthase
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(inhibitors; assocn. of NO-synthase inhibitors and metabolic antioxidants)
RN 125978-95-2 HCAPLUS
CN Synthase, nitric oxide (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***